THEREFORE, WHAT IS CLAIMED IS:

ODP

1. A curable powder composition comprising:

(claims from 11/193,666)

(a) a material having the structure:

 $\begin{bmatrix} R_3 & R_5 & H \\ & & & \\ R_4 & -N - R_2 & -Z - C - N - \\ & & & \\ &$

wherein R_1 is an organic radical having 6 to 25 carbon atoms, R_2 is an organic radical having 1 to 20 carbon atoms; R_3 and R_4 are independently alkyl or phenyl groups having 1 to 8 carbon atoms; Z is oxygen or nitrogen and when Z is oxygen, R_5 is absent and when Z is nitrogen, R_5 is hydrogen or

 R_2 — R_4 and when R_5 is — R_2 — R_4 , each R_2 , each R_3 and each R_4 are the same or different; and n is 1 to 4; and

- (b) a polyepoxide;wherein the powder composition cures in the absence of any addition component.
- 2. The powder composition of Claim 1, wherein said composition cures at a temperature of between 80°C and 125°C.
- 3. The powder composition of Claim 2, wherein said composition cures at a temperature of between 105°C and 120°C.
 - 4. The powder composition of Claim 1, wherein said composition cures at a temperature greater than 125°C.

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- 5. The powder composition of Claim 1, wherein Z is nitrogen and R_5 is hydrogen.
- 5 6. The composition of Claim 5, wherein R_1 is 1,1,3,3-tetramethylcyclohexylene.
 - 7. The composition of Claim 5, wherein R_2 is n-propylene.
- 10 8. The composition of Claim 5, wherein R₃ and R₄ are methyl.
 - 9. The composition of Claim 1, wherein component (a) further comprises an acidic hydrogen-containing compound.
- 15 10. The composition of Claim 9, wherein the acidic hydrogencontaining compound is a phenolic compound.
 - 11. The composition of Claim 10, wherein the phenolic compound is a polyphenol.

- 12. The composition of Claim 11, wherein the polyphenol is bis(4-hydroxyphenyl)-2,2-propane.
- 13. The composition of Claim 1, wherein (a) is present in an amount ranging from about 0.5 to 10 weight percent, and (b) is present in an amount ranging from about 20 to about 90 weight percent, with weight percent being based upon total weight of the composition.
- 14. The composition of Claim 12, wherein (a) is present in an30 amount ranging from about 3 to 5 weight percent, and (b) is present in an

amount ranging from about 30 to about 60 weight percent, with weight percent being based upon total weight of the composition.

- 15. A method for coating a substrate comprising:
- 5 (a) applying to said substrate the powder composition of Claim 1; and
 - (b) curing said composition.
- 16. The method of Claim 15, wherein said composition is cured at a temperature of between 80°C and 125°C.
 - 17. A substrate coated according to the method of Claim 15.
- The substrate of Claim 17, wherein said substrate is comprised
 of a thermoplastic polymer, a thermoset polymer, cardboard, paper, wood, particleboard, medium density fiberboard and/or metal.
- 19. A powder coating composition that cures at a temperature of between 80°C and 125°C, comprising a resin and curing agent therefor,20 wherein substantially all of the curing agent is extruded with the resin.
 - 20. The powder coating composition of Claim 19, wherein said composition does not cure at a temperature below 70°C.
- 25 21. A catalyst composition comprising: the reaction product of:

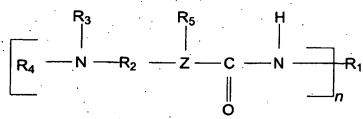
i) a material having the structure

$$\begin{bmatrix} R_3 & R_5 & H \\ & & & \\ R_4 & -N & -R_2 & -Z -C & -N & -R_1 \\ & & & & \\ & & & \\ & & & & \\ &$$

wherein R_1 is an organic radical having 6 to 25 carbon atoms R_2 is an organic radical having 1 to 20 carbon atoms; R_3 and R_4 are independently alkyl or phenyl groups having 1 to 8 carbon atoms; Z is oxygen or nitrogen and when Z is oxygen R_5 is absent and when Z is nitrogen, R_5 is hydrogen or

and when R_5 is $-R_2-N-R_4$, each R_2 , each R_3 and each R_4 are the same or different, and n is 1 to 4, but when Z is nitrogen, R_2 is an alkylene having between 1 and 4 carbon atoms, and R_3 and R_4 are both alkyl groups having between 1 and 4 carbons, R_5 is not hydrogen; and

- (ii) an acidic hydrogen-containing compound;
- 22. A powder composition comprising the catalyst of Claim 21.
- 23. A catalyst composition comprising: a material having the structure:



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wherein R_1 is an organic radical having 6 to 25 carbon atoms, R_2 is an organic radical having 1 to 20 carbon atoms; R_3 and R_4 are independently alkyl or phenyl groups having 1 to 8 carbon atoms; Z is oxygen or nitrogen and when Z is oxygen R_5 is absent and when Z is nitrogen R_5 is hydrogen or

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$$\begin{array}{c} R_3 \\ I \\ --R_2--N---R_4 \end{array}$$

R

- and when R₅ is —R₂—N—R₄, each R₂, each R₃ and each R₄ are the same or different; and *n* is 1 to 4; wherein said composition does not include an acidic hydrogen-containing compound.
- 24. A powder composition comprising the catalyst of Claim 23,15 wherein said powder composition does not include an acidic hydrogen-containing compound.
 - 25. A cured coating layer comprising:
 - (a) a material having the structure:

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$$\begin{bmatrix} R_3 & R_5 & H \\ & & & & \\ R_4 & -N - R_2 & -Z - C - N & -R_2 \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & &$$

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wherein R_1 is an organic radical having 6 to 25 carbon atoms, R_2 is an organic radical having 1 to 20 carbon atoms; R_3 and R_4 are independently alkyl or phenyl groups having 1 to 8 carbon atoms; Z is oxygen or nitrogen and when Z is oxygen, R_5 is absent and when Z is nitrogen, R_5 is hydrogen or

$$R_3$$
 R_3 R_3 R_4 R_5 is R_2 R_4 , each R_5 each R_6 and each R_6 are the same or different; and R_6 is 1 to

(b) a polyepoxide;

4; and

wherein the polyepoxide has reacted with itself during cure.

26. A method for initiating self cure of a polyepoxide resin
 10 comprising adding to a composition comprising said resin a catalyst having the structure

$$\begin{bmatrix} R_3 & R_5 & H \\ & & & \\ R_4 & -N & -R_2 & -Z & -C & -N & -R_1 \\ & & & & \\ O & & & O \end{bmatrix}$$

wherein R_1 is an organic radical having 6 to 25 carbon atoms, R_2 is an organic radical having 1 to 20 carbon atoms; R_3 and R_4 are independently alkyl or phenyl groups having 1 to 8 carbon atoms; Z is oxygen or nitrogen and when Z is oxygen R_5 is absent and when Z is nitrogen, R_5 is hydrogen or

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and when R_5 is $-R_2$ —N— R_4 , each R_2 , each R_3 and each R_4 are the same or different; and n is 1 to 4.

- 25 27. The method of Claim 26, wherein said catalyst further comprises an acidic hydrogen-containing compound.
 - 28. The composition of Claim 1, wherein R_2 is alkylene.

- 29. The composition of Claim 1, wherein R₃ and R₄ are alkyl.
- 30. A curable powder composition comprising:
 - (a) a polyepoxide; and
- (b) the reaction product of a polyisocyanate and either an amine comprising a primary or secondary amine group and a tertiary amine or an alcohol or polyol containing a tertiary amine.
- 31. The composition of Claim 30, wherein the reaction product is formed from a polyisocyanate and an amine comprising a primary or secondary amine group and a tertiary amine.
 - 32. The composition of Claim 31, wherein the polyisocyanate is a diisocyanate.

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33. The composition of Claim 30, wherein (b) is mixed with an acidic hydrogen-containing compound.